



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicant:

MEDINA et al

Serial No.: 10/750,760

Filed: 05 JAN 2004

For: Single Layer MEMS Based  
Variable Optical Attenuator With  
Transparent Shutter

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Group Art Unit:

Attorney Docket No.: 2238/5

Examiner:

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT


Sir:

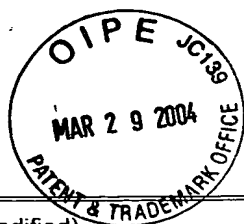
Enclosed is PTO Form 1449 which lists citations which may be material to the patentability of the above-identified application.

Also enclosed are copies of the references cited. These are being submitted in compliance with the duty of disclosure defined in 37 C.F.R. 1.56. The Examiner is requested to make these citations of official record in this application.

This Information Disclosure Statement Under 37 C.F.R. 1.56 is not to be construed as a representation that a search has been made, that additional matter which is material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Respectfully submitted,

  
Mark M. Friedman  
Attorney for Applicant  
Registration No. 33,883  
Date: March 24, 2004



Sheet 1 of 1

Form PTO-1449 (Modified)  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> <i>(USE SEVERAL SHEETS IF NECESSARY)</i>	Atty. Docket No. <b>2238/5</b>	Application No. <b>10/750,760</b>
	Applicant: <b>Medina et al</b>	
	Filing Date: <b>05 JAN 2004</b>	Group Art Unit:

**U.S. PATENT DOCUMENTS**

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
AA		6,459,845	OCT 02	Lee et al			
AB		5,845,023	Dec 98	Lee			
AC							
AD							

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
AE								

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

AF		H Toshiyoshi et al; "A5 Volt Operated Mems Variable Optical Attenuator" 12 <sup>th</sup> International Conference on Solid State Sensors, Actuators and Microsystems, Boston, June 8-12 2003
AG		Ford et al; "Dynamic Spectral Power Equalization using Micro-Optics-Mechanics", IEEE Photon. Tech.lett. vol. 10, No. 10 (1998), pp. 1440-1449
AH		Aksyuk; "Low insertion loss packaged and fibre connectorised mems reflective optical switch" Electronics Letters, vol 34, no.14 (1998) pp 1413
AI		Legtenberg et al; "Comb-drive actuators for large displacements" Micromech. Microeng; 6 pp 320-329 1996
AJ		Lee et al; "Design and characteristics of a micromachined variable optical attenuator with a silicon optical wedge" Optics Communications 221 (2003) 323-330

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.	